



Water-Data Report CA-2005

11238270 MIDDLE FORK BALSAM CREEK BELOW BALSAM MEADOWS FOREBAY, NEAR BIG CREEK, CA

San Joaquin River Basin

LOCATION.--Lat 37°09'46", long 119°15'12" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.9, T.9 S., R.25 E., Fresno County, Hydrologic Unit 18040006, in Sierra National Forest, on left bank, 80 ft downstream from control house at base of Balsam Meadows Dam, and 2.6 mi south of town of Big Creek.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1989 to current year.

GAGE.--Water-stage recorder, 90° V-notch weir and concrete control. Elevation of gage is 6,560 ft above NGVD of 1929, from topographic map.

REMARKS.--Flow consists of fishery maintenance release and spill over Balsam Meadows Dam. No record of flow over spillway Apr. 15, 1989. Diversion from Balsam Meadows Dam through penstock to Eastwood Powerplant (station 11238250). See schematic diagram of lower San Joaquin River Basin.

COOPERATION.--Records were collected by Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 67.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge unknown, Apr. 15, 1989, as there was no record of flow over spillway; minimum daily, 0.31 ft³/s, Feb. 4, 1989.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1.3	1.3	0.75	0.80	0.80	0.80	0.83	0.87	1.2	1.3	1.3	1.3
2	1.2	1.3	0.74	0.79	0.80	0.82	0.79	0.89	1.2	1.3	1.4	1.3
3	1.2	1.3	0.75	0.80	0.81	0.80	0.81	0.89	1.2	1.3	1.3	1.2
4	1.2	1.2	0.77	0.81	0.78	0.78	0.82	0.89	1.2	1.3	1.3	1.3
5	1.2	1.2	0.76	0.81	0.79	0.78	0.82	1.0	1.2	1.3	1.2	1.2
6	1.2	1.2	0.77	0.80	0.81	0.80	0.84	0.94	1.2	1.3	1.2	1.3
7	1.3	1.3	0.79	0.80	0.80	0.79	0.84	0.89	1.2	1.2	1.4	1.3
8	1.2	1.3	0.76	0.80	0.79	0.80	0.84	0.89	1.2	1.3	1.3	1.2
9	1.2	1.3	0.78	0.81	0.79	0.81	0.84	1.0	1.2	1.3	1.3	1.3
10	1.3	1.3	0.75	0.81	0.80	0.81	0.85	0.87	1.2	1.3	1.3	1.3
11	1.2	1.3	0.75	0.81	0.80	0.79	0.84	0.83	1.3	1.3	1.3	1.3
12	1.3	1.2	0.78	0.81	0.80	0.82	0.83	0.87	1.3	1.3	1.3	1.3
13	1.3	1.3	0.78	0.81	0.80	0.82	0.85	0.95	1.3	1.3	1.3	1.2
14	1.2	1.3	0.80	0.81	0.82	0.79	0.81	0.97	1.3	1.3	1.3	1.3
15	1.2	1.3	0.81	0.78	0.82	0.80	0.81	0.96	1.3	1.3	1.3	1.3
16	1.2	1.3	0.80	0.77	0.83	0.79	0.84	1.2	1.3	1.3	1.3	1.2
17	1.4	1.3	0.77	0.78	0.82	0.80	0.84	0.90	1.3	1.3	1.3	1.3
18	1.3	1.3	0.80	0.79	0.82	0.81	0.85	1.0	1.3	1.3	1.3	1.3
19	1.3	1.3	0.81	0.79	0.81	0.82	0.84	1.0	1.3	1.3	1.2	1.3
20	1.3	1.3	0.81	0.80	0.82	0.82	0.83	1.0	1.4	1.3	1.2	1.3
21	1.3	1.3	0.79	0.79	0.81	0.82	0.81	1.0	1.3	1.2	1.2	1.2
22	1.3	1.3	0.80	0.80	0.81	0.85	0.81	0.99	1.3	1.3	1.2	1.3
23	1.2	1.1	0.80	0.80	0.81	0.85	0.80	0.93	1.3	1.3	1.2	1.3
24	1.3	0.74	0.79	0.79	0.80	0.83	0.81	1.1	1.3	1.3	1.2	1.2
25	1.3	0.75	0.79	0.82	0.80	0.83	0.79	1.4	1.3	1.2	1.2	1.3
26	1.3	0.77	0.80	0.81	0.81	0.84	0.80	1.4	1.3	1.3	1.2	1.3
27	1.3	0.75	0.82	0.81	0.80	0.84	0.84	1.3	1.4	1.3	1.2	1.3
28	1.2	0.75	0.81	0.80	0.81	0.85	0.83	1.3	1.3	1.3	1.2	1.3
29	1.3	0.77	0.80	0.80	---	0.85	0.82	1.2	1.3	1.3	1.2	1.3
30	1.3	0.75	0.81	0.78	---	0.83	0.85	1.2	1.3	1.3	1.2	1.3
31	1.2	---	0.82	0.80	---	0.82	---	1.2	---	1.3	1.3	---
Total	39.0	34.58	24.36	24.78	22.56	25.26	24.78	31.83	38.2	40.0	39.1	38.3
Mean	1.26	1.15	0.79	0.80	0.81	0.81	0.83	1.03	1.27	1.29	1.26	1.28
Max	1.4	1.3	0.82	0.82	0.83	0.85	0.85	1.4	1.4	1.3	1.4	1.3
Min	1.2	0.74	0.74	0.77	0.78	0.78	0.79	0.83	1.2	1.2	1.2	1.2
Ac-ft	77	69	48	49	45	50	49	63	76	79	78	76

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.83	0.77	0.78	0.77	0.78	0.88	0.95	0.84	1.25	1.28	1.28	1.29
Max	1.26	1.22	1.44	1.26	1.29	2.20	2.75	1.28	1.45	1.38	1.48	1.50
(WY)	(2005)	(2001)	(1992)	(2001)	(2001)	(1992)	(1992)	(1995)	(1995)	(1995)	(1992)	(1992)
Min	0.59	0.57	0.58	0.56	0.57	0.56	0.57	0.60	1.10	1.11	1.10	1.11
(WY)	(1998)	(1997)	(1998)	(1996)	(1996)	(1996)	(1996)	(1996)	(1998)	(2001)	(2001)	(2001)

11238270 MIDDLE FORK BALSAM CREEK BELOW BALSAM MEADOWS FOREBAY, NEAR BIG CREEK, CA—Continued**SUMMARY STATISTICS**

	Calendar Year 2004	Water Year 2005	Water Years 1989 - 2005	
Annual total	354.29	382.75		
Annual mean	0.97	1.05	0.97	
Highest annual mean			1.38	1992
Lowest annual mean			0.81	1996
Highest daily mean	1.6	Jun 17	1.4	Oct 17
Lowest daily mean	0.59	Feb 15	0.74	Nov 24
Annual seven-day minimum	0.61	Apr 18	0.75	Nov 27
Maximum peak flow			1.7	May 16
Maximum peak stage			0.88	May 16
Annual runoff (ac-ft)	703	759	706	
10 percent exceeds	1.3	1.3	1.3	
50 percent exceeds	0.99	1.2	0.84	
90 percent exceeds	0.62	0.79	0.61	

